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The status of late-time decays of dark matter

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The simplest phenomenological model for cosmological dark matter is the “cold dark matter” (CDM) model. This model assumes that dark matter is cold, collisionless, and stable. Recently, these three tenets of CDM have been challenged on both observational and theoretical grounds. In this talk, I present a review of recent work on investigations into the stability of dark matter. I consider both the cases in which dark matter decays into Standard-Model or “hidden sector” particles.

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